



# Product Evaluation

RC530| 0317

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** RC-530

**Effective Date:** March 1, 2017

**Re-evaluation Date:** March 2021

**Product Name:** Craftsman Large Batten (LB) Steel Standing Seam Roof Panels Installed over Steel Decks

**Manufacturer:** Metal Building Components, Inc. (MBCI), L.P., a division of NCI, L.P.  
14031 West Hardy  
Houston, TX 77060  
(281) 445-8555

## General Description:

The Craftsman Large Batten (LB) standing seam roof panels are minimum 24-gauge steel panels. The metal panels have a maximum exposure of 16-1/2". The metal roof panels have a 1-1/2" rib height. Battens (2" high x 2" wide) are minimum 24-gauge steel and cover the panel ribs. The metal roof panels are Galvalume steel with a minimum yield strength of 50,000 psi.

## Limitations:

**Roof Deck:** Minimum 22-gauge steel. Minimum 1-1/2" depth with ribs at 6" on center.

**Roof Deck Attachment:** A new roof deck must meet or exceed the uplift wind pressure requirements of the IRC or IBC and must be installed as required to resist lateral loads.

**Roof Framing Spacing:** Maximum of 72" on center.

**Installation over an Existing Roof Covering:** Not permitted.

**Roof Slope:** Do not install panels of roofs with a roof slope less than 3:12.

**Design Wind Pressure:** The design pressure uplift load resistance is -52.5 psf.

**Installation:**

**General:** The metal roof panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**Roof Deck:** Minimum 22-gauge steel. Minimum 1-1/2" depth with ribs at 6" on center.

**Underlayment:** A minimum of one layer of Type I asphalt felt must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment must be fastened to the roof deck with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners must be applied along the overlaps not farther apart than 36" on center.

**Attachment of Roof Panels to the Deck:** Secure the panels to the decks with galvanized steel LB clips (HW-3700; 1-3/4" high x 1-5/16" wide x 2" long). The clips are located at the panel sides with guide holes at the bottom to accommodate fasteners. The clips are spaced a maximum of 24" on center. Each clip is secured to the deck with one No. 14 x 1/2" long self-drilling screws with a No. 2 Phillips head size. The fasteners must be long enough to penetrate a minimum of 3 threads below the deck.

**Battens:** The battens are snap fit over the LB clips along the length of the seam.

**Rigid Insulation (Optional):** Foamed plastic; maximum of 6" thick. Bearing plates (HW-7500; minimum 16-gauge galvanized steel; 3-7/8" x 5") must be used. Length of fastener required for clips must be increased to fully penetrate through the insulation and a minimum of 3 threads below the deck.

**Panel Ends and End Laps:** As required by the manufacturer.

**Trims, Closures, and Accessories:** Components, such as trims, closures, and accessories must be installed as required by the manufacturer.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.